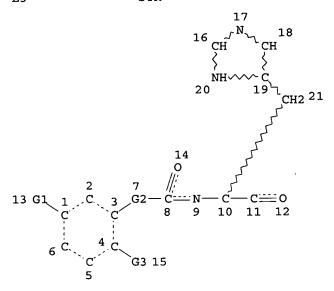
Scientific and Technical Information Center

Art Unit: 1639 F Mail Box and Bldg/Room L REM 3 CIB (nallbx), 3 If more than one search is	Phone Number 78 5 11-272- ocation: Res D19 (Africa) s submitted, please priorit ************************************	Examiner #: 62.785 Date: 12-27-2004 0969 Serial Number: 10/671.340 sults Format Preferred (circle): APER DISK E-MAIL ize searches in order of need. ***********************************	
Title of Invention: M. A.F.	ed GLP-1 Profider 6	With Incrased Biological Patency	
have the control of the	D. Goal K.P.	ri, T. Abribat, A. Habi	
inventors (piease provide iiii ii	ames). Of Graver, 13cts		
Earliest Priority Filing Date	9-25-2003		
For Sequence Searches Only Ple appropriete serial number.	vase include all pertinent informatio	n (parent, child, divisional, or issued patent numbers) along with the	
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73	A 0 - N - C - C	If there are many hits please require A to be	
OH OH		HC=N CH (a Lishidhe sid	e chain
СН3 - СН2 - СН - С СН2	н-СМ2-С-N-С	-C, Thank you.	
STAFF USE ONLY	Type of Search	Vendors and cost where applicable	
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Date Searcher Picked Up.			
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Fighing Time	Other:	Other (specify)	

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Russel 10/671340

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VAR G1=H/OME/NH2 REP G2=(0-1) CH2 VAR G3=OH/H NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES: RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L5 344 SEA FILE=REGISTRY SSS FUL L3

100.0% PROCESSED 84724 ITERATIONS

SEARCH TIME: 00.00.01

344 ANSWERS

=> fil caplus;s 15 and (glp-1 or glucagon like peptide 1 or proglucagon)
COST IN U.S. DOLLARS
SINCE FILE
TOTAL
ENTRY
SESSION
FULL ESTIMATED COST
158.79

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FILE COVERS 1907 - 30 Dec 2004 VOL 142 ISS 1
FILE LAST UPDATED: 29 Dec 2004 (20041229/ED)
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312 L5

This file contains CAS Registry Numbers for easy and accurate substance identification.

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            84 GLPS
          2630 GLP
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       8134322 1
         1696 GLP-1
                 (GLP(W)1)
         23447 GLUCAGON
            96 GLUCAGONS
         23459 GLUCAGON
                 (GLUCAGON OR GLUCAGONS)
        647478 LIKE
          233 LIKES
        647677 LIKE
                 (LIKE OR LIKES)
       321669 PEPTIDE
       235124 PEPTIDES
       411781 PEPTIDE
                 (PEPTIDE OR PEPTIDES)
       8134322 1
         1626 GLUCAGON LIKE PEPTIDE 1
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L6
             1 L5 AND (GLP-1 OR GLUCAGON LIKE PEPTIDE 1 OR PROGLUCAGON)
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    ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
2004:287858 Document No. 140:298100 Modified GLP-1
    peptides with increased biol. potency in the treatment of glucose
    metabolism disorders, insulin resistance, and related conditions. Gravel,
    Denis; Peri, Krishna; Abribat, Thierry; Habi, Abdelkrim (Theratechnologies
    Inc., Can.). PCT Int. Appl. WO 2004029081 A2 20040408, 47 pp. DESIGNATED
    STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH,
    CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH,
    GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR; LS, LT,
    LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT,
    RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US,
    UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY,
    DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE,
    SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2003-CA1470
    20030925. PRIORITY: US 2002-PV413171 20020925.
    The present invention relates to a GLP-1 peptide
ΔR
    having the following formula, or a pharmaceutically acceptable salt
    thereof: X-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-
    Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Y (SEQ ID NO.1),
    wherein X is a rigidifying hydrophobic moiety and wherein Y is selected
    from the group consisting of OH, NH2 and Gly-OH. Moreover, the present
     invention relates to pharmaceutical compns. comprising a therapeutically
```

```
effective amount of a peptide of the present invention, or a
              pharmaceutically acceptable salt thereof, in association with at least one
              constituent selected from a pharmaceutically acceptable carrier, diluent,
              and excipient.
IT
               676471-10-6 676471-11-7 676471-12-8
               676471-16-2 676471-17-3 676471-18-4
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               676471-27-5 676471-40-2 676471-41-3
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               676471-51-5
              RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL
               (Biological study); USES (Uses)
                        (modified GLP-1 peptides with increased biol.
                       potency in the treatment of glucose metabolism disorders, insulin
                       resistance, and related conditions)
               676471-10-6 CAPLUS
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CN
              \verb|glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-\alpha-|
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              phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-
              lysylglycyl- (9CI) (CA INDEX NAME)
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Absolute stereochemistry.

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            55 PERI, K?/AU
L8
            36 ABRIBAT, T?/AU
Ь9
L10
            12 HABI, A?/AU
=> s 17 and 18 and 19 and 110
             1 L7 AND L8 AND L9 AND L10
L11
=> s 111 not 16
L12
             0 L11 NOT L6
=> s 15 and (17 or 18 or 19 or 110)
           312 L5
             2 L5 AND (L7 OR L8 OR L9 OR L10)
L13
=> s 113 not 111
             1 L13 NOT L11
L14
=> d cbib abs hitstr
L14 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN
2002:107371
            Document No. 136:161700 Modified biological peptides with
     increased potency for use in treating pathologies related to insulin
     resistance, glucose intolerance and/or type II diabetes. Gravel,
     Denis; Habi, Abdelkrim; Abribat, Thierry
     (Theratechnologies Inc., Can.). PCT Int. Appl. WO 2002010195 A2 20020207,
     77 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR,
     BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB,
     GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK,
     LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO,
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     ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG,
     CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR,
     NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION:
     WO 2001-CA1119 20010802. PRIORITY: US 2000-PV222619 20000802.
     The present invention is concerned with modified biol. peptides providing
AB
     increased potency, prolonged activity and/or increased half-life thereof.
     The modification is made via coupling through an amide bond with at least
     one conformationally rigid substituent, either at the N-terminal of the
     peptide, the C-terminal of the peptide, on a free amino or carboxyl group
     along the peptide chain, or at a plurality of these sites. Those peptides
     exhibit clin. usefulness for example in treating states of insulin
     resistance associated with pathologies such as type II diabetes.
TT
     397288-62-9
     RL: BSU (Biological study, unclassified); PRP (Properties); BIOL
     (Biological study)
        (modified biol. peptides with increased potency for use in treating
        pathologies related to insulin resistance, glucose intolerance and/or
        type II diabetes)
RN
     397288-62-9 CAPLUS
     Glycinamide, N-[(2-methylphenyl)acetyl]-L-histidyl-L-alanyl-L-\alpha-
CN
     \verb|glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-\alpha-|
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aspartyl-L-valyl-L-seryl-L-seryl-L-tyrosyl-L-leucyl-L- α -glutamylglycyl-L-glutaminyl-L-alanyl-L-alanyl-L-lysyl-L- α -glutamyl-L-phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-lysylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

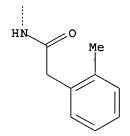
PAGE 1-A

PAGE 1-B

PAGE 1-D

PAGE 2-C

PAGE 2-B



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STRUCTURE FILE UPDATES: 29 DEC 2004 HIGHEST RN 805206-90-0 DICTIONARY FILE UPDATES: 29 DEC 2004 HIGHEST RN 805206-90-0

TSCA INFORMATION NOW CURRENT THROUGH MAY 21, 2004

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more information enter HELP PROP at an arrow prompt in the file or refer to the file summary sheet on the web at: http://www.cas.org/ONLINE/DBSS/registryss.html

=> => d 117 que stat;fil caplus;s 117 L15 STR

NODE ATTRIBUTES: DEFAULT MLEVEL IS ATOM DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:

RING(S) ARE ISOLATED OR EMBEDDED NUMBER OF NODES IS 12

STEREO ATTRIBUTES: NONE

L17 10 SEA FILE=REGISTRY SSS FUL L15

100.0% PROCESSED 1024 ITERATIONS

SEARCH TIME: 00.00.01

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10 ANSWERS

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FILE COVERS 1907 - 30 Dec 2004 VOL 142 ISS 1 FILE LAST UPDATED: 29 Dec 2004 (20041229/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

L18 2 L17

=> d 1-2 cbib abs hitstr

L18 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

2004:287858 Document No. 140:298100 Modified GLP-1 peptides with increased biol. potency in the treatment of glucose metabolism disorders, insulin resistance, and related conditions. Gravel, Denis; Peri, Krishna; Abribat, Thierry; Habi, Abdelkrim (Theratechnologies Inc., Can.). PCT Int. Appl. WO 2004029081 A2 20040408, 47 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2003-CA1470 20030925.

PRIORITY: US 2002-PV413171 20020925.

The present invention relates to a GLP-1 peptide having the following formula, or a pharmaceutically acceptable salt thereof:

X-His-Ala-Glu-Gly-Thr-Phe-Thr-Ser-Asp-Val-Ser-Ser-Tyr-Leu-Glu-Gly-Gln-Ala-Ala-Lys-Glu-Phe-Ile-Ala-Trp-Leu-Val-Lys-Gly-Arg-Y (SEQ ID NO.1), wherein X is a rigidifying hydrophobic moiety and wherein Y is selected from the group consisting of OH, NH2 and Gly-OH. Moreover, the present invention relates to pharmaceutical compns. comprising a therapeutically effective amount of a peptide of the present invention, or a pharmaceutically acceptable salt thereof, in association with at least one constituent selected from a pharmaceutically acceptable carrier, diluent, and excipient.

IT 676471-43-5 676471-44-6 676471-45-7 676471-46-8 676471-47-9 676471-48-0 676540-56-0 676540-57-1 676540-58-2

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(modified GLP-1 peptides with increased biol. potency in the treatment of glucose metabolism disorders, insulin resistance, and related conditions)

RN 676471-43-5 CAPLUS

CN L-Arginine, N-[[(1R,2R)-2-ethylcyclopropyl]acetyl]-L-histidyl-L-alanyl-L-α-glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-α-α-aspartyl-L-valyl-L-seryl-L-seryl-L-tyrosyl-L-leucyl-L-α-glutamylglycyl-L-glutaminyl-L-alanyl-L-alanyl-L-lysyl-L-α-glutamyl-L-phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-lysylglycyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 2-C

L18 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2004 ACS on STN

2002:107371 Document No. 136:161700 Modified biological peptides with increased potency for use in treating pathologies related to insulin resistance, glucose intolerance and/or type II diabetes. Gravel, Denis; Habi, Abdelkrim; Abribat, Thierry (Theratechnologies Inc., Can.). PCT Int. Appl. WO 2002010195 A2 20020207, 77 pp. DESIGNATED STATES: W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM; RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, CY, DE, DK, ES, FI, FR, GA, GB, GR, IE, IT, LU, MC, ML, MR, NE, NL, PT, SE, SN, TD, TG, TR. (English). CODEN: PIXXD2. APPLICATION: WO 2001-CA1119 20010802. PRIORITY: US 2000-PV222619 20000802.

The present invention is concerned with modified biol. peptides providing increased potency, prolonged activity and/or increased half-life thereof. The modification is made via coupling through an amide bond with at least one conformationally rigid substituent, either at the N-terminal of the peptide, the C-terminal of the peptide, on a free amino or carboxyl group along the peptide chain, or at a plurality of these sites. Those peptides exhibit clin. usefulness for example in treating states of insulin resistance associated with pathologies such as type II diabetes.

IT 397288-65-2

RL: BSU (Biological study, unclassified); PRP (Properties); BIOL (Biological study)

(modified biol. peptides with increased potency for use in treating pathologies related to insulin resistance, glucose intolerance and/or type II diabetes)

RN 397288-65-2 CAPLUS

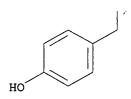
CN Glycinamide, N-[[[rel-(1S,2S)]-2-ethylcyclopropyl]acetyl]-L-histidyl-L-alanyl-L-α-glutamylglycyl-L-threonyl-L-phenylalanyl-L-threonyl-L-seryl-L-threonyl-L-seryl-L-tyrosyl-L-leucyl-L-α-glutamylglycyl-L-glutaminyl-L-alanyl-L-alanyl-L-lysyl-L-α-glutamyl-L-phenylalanyl-L-isoleucyl-L-alanyl-L-tryptophyl-L-leucyl-L-valyl-L-lysylglycyl-L-arginyl- (9CI) (CA INDEX NAME)

PAGE 1-B

PAGE 1-D

PAGE 2-B

PAGE 2-C



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COST IN U.S. DOLLARS SINCE FILE TOTAL ENTRY SESSION FULL ESTIMATED COST 9.96 356.07 DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL ENTRY SESSION CA SUBSCRIBER PRICE -1.40 -2.80

STN INTERNATIONAL LOGOFF AT 13:48:33 ON 30 DEC 2004